**IPO chart:**

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| --- | --- | --- |
| Input: | Processing: | Output: |
| User input for last name, job code, and hours worked for each employee.  User input ends when Ctrl+Z is pressed. | Define a function calculatePayRate that determines the pay rate based on the job code ('L', 'A', or 'J'). If the job code is not recognized, it returns a pay rate of 0.0.  Initialize a variable to keep track of the total gross pay (totalGrossPay).  Use a while loop to repeatedly ask the user for employee information and perform the following steps for each employee:  Read and store the last name, job code, and hours worked.  Calculate the pay rate using the calculatePayRate function.  Calculate the gross pay, giving time and a half for overtime hours worked over 40.  Display the last name and gross pay for each employee.  Update the total gross pay.  End input when the user presses Ctrl+Z . | For each employee, display the last name and gross pay.  After processing all employees, display the total gross pay. |

**Code:**

def calculatePayRate(jobCode):

if jobCode == 'L':

return 25.0

elif jobCode == 'A':

return 30.0

elif jobCode == 'J':

return 50.0

else:

return 0.0

totalGrossPay = 0

try:

while True:

lastName = input("Enter last name (Ctrl+Z or Ctrl+D to stop): ")

jobCode = input("Enter job code (L, A, or J): ").upper()

hoursWorked = float(input("Enter hours worked: "))

payRate = calculatePayRate(jobCode)

grossPay = 0

if hoursWorked <= 40:

grossPay = hoursWorked \* payRate

else:

overtimeHours = hoursWorked - 40

grossPay = (40 \* payRate) + (overtimeHours \* 1.5 \* payRate)

print(f"Last Name: {lastName}")

print(f"Gross Pay: ${grossPay:.2f}\n")

totalGrossPay += grossPay

except EOFError:

pass

print(f"Total Gross Pay: ${totalGrossPay:.2f}")